GenCore version 4.5

OM protein - protein search, using sw model

Run on: July 9, 2002, 12:04:50 ; Search time 29.91 Seconds
(without alignments)
18.568 Million cell updates/sec

Title: US-09-759-484-3
Perfect score: 22
Sequence: 1 AMVSE 5

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	22	100.0	11	21	AAY80130	Lipocortin 1 N-ter
3	22	100.0	25	21	AAY80134	Lipocortin 1 (LC1
4	22	100.0	40	21	AAB12834	Protein kinase v-S
5	22	100.0	97	21	AAG15894	Arabidopsis thalia
6	22	100.0	97	21	AAG61041	Arabidopsis thalia
7	22	100.0	120	20	AAY60364	Human normal bladd
8	22	100.0	122	21	AAG35902	Arabidopsis thalia
9	22	100.0	129	21	AAG35901	Arabidopsis thalia
10	22	100.0	139	21	AAG00922	Human secreted pro
11	22	100.0	152	21	AAG15893	Arabidopsis thalia
12	22	100.0	152	21	AAG61040	Arabidopsis thalia
13	22	100.0	155	21	AAG15892	Arabidopsis thalia
14	22	100.0	155	21	AAG61039	Arabidopsis thalia
15	22	100.0	155	22	AAG82274	S. epidermidis ope
16	22	100.0	167	22	ABB70842	Drosophila melanog
17	22	100.0	194	22	AAG80846	Lipid biosynthesis
18	22	100.0	194	22	AAG80864	Lipid biosynthesis
19	22	100.0	194	22	AAG83286	P patens lipid met
20	22	100.0	194	22	AAG83311	P patens lipid met
21	22	100.0	201	21	AAG35900	Arabidopsis thalia
22	22	100.0	346	7	AAP61523	Sequence of human
23	22	100.0	346	9	AAP82318	Lipocortin I isola
24	22	100.0	346	9	AAP82062	Recombinant rat li
25	22	100.0	346	9	AAP82063	Human lipocortin.
26	22	100.0	346	11	AAR06560	Human lipocortin o
27	22	100.0	346	20	AAY08412	Human p-40/annexin
28	22	100.0	346	20	AAY13928	S65T GFP variant/h
29	22	100.0	346	21	AAB27545	Bovine annexin-1.
30	22	100.0	346	21	AAY84787	Amino acid sequenc
31	22	100.0	363	7	AAP60657	Sequence of human
32	22	100.0	363	13	AAR22402	Human lipocortin.
33	22	100.0	373	21	AAB43443	Human cancer assoc
34	22	100.0	387	10	AAP90400	Modified human lip
35	22	100.0	388	22	ABB11880	Human lipocortin h
36	22	100.0	416	22	ABG00476	Novel human diagno
37	22	100.0	463	21	AAG30578	Arabidopsis thalia
38	22	100.0	500	22	AAU63501	Propionibacterium
39	22	100.0	519	21	AAG30577	Arabidopsis thalia
40	22	100.0	533	21	AAG30576	Arabidopsis thalia
41	22	100.0	768	21	AAG28572	Arabidopsis thalia
42	22	100.0	1345	21	AAG30838	Arabidopsis thalia
43	21	95.5	126	21	AAB39062	Human secreted pro
44	21	95.5	177	20	AAY37602	Protein which is s
45	21	95.5	209	22	AAG82511	S. epidermidis ope

ALIGNMENTS

RESULT 1
AAY80129
ID AAY80129 standard; peptide; 5 AA.
XX
AC AAY80129;
XX
DT 18-MAY-2000 (first entry)
XX
DE Lipocortin 1 N-terminal peptide sequence 2-6.
XX
KW Lipocortin 1; LC1; antiinflammatory; inflammation; infection;
KW glucocorticoid; annexin; arthritis; gout; asthma; skin disorder;
KW inflammatory disease; antirheumatic; antiarthritic; antiasthmatic;
KW cerebroprotective; cardiant; antibacterial; immunosuppressive; antigout.
XX
OS Unidentified.
XX
PN WO200005255-A2.
XX
PD 03-FEB-2000.
XX
PF 22-JUL-1999; 99WO-GB02391.
XX
PR 24-JUL-1998; 98GB-0016235.
XX
PA (HARV-) HARVEY RES LTD WILLIAM.
XX
PI Perretti M, Flower R;
XX
DR WPI; 2000-182645/16.
XX
PT Compounds capable of inhibiting leukocyte migration, useful for
PT prevention and treatment of inflammatory diseases such as gout,
PT arthritis and asthma, and skin disorders -

XX
PS Claim 1; Page 11; 15pp; English.
XX
CC The present invention describes a compound (I) comprising the amino acid
CC sequence AMVSE (the present sequence), but which does not include the
CC sequence EQEYVQTV (AAY80132). (I) has antiinflammatory, antirheumatic,
CC antiarthritic, antiasthmatic, cerebroprotective, cardiant, antibacterial
CC immunosuppressive and antigout activity. (I) is an inhibitor of
CC polymorphonuclear leukocyte (PMN) migration. (I) is useful in medicine
CC compositions, for inhibiting leukocyte migration and for treating or
CC preventing inflammatory diseases including gout, gouty arthritis,
CC rheumatoid arthritis, asthma, reperfusion injury or damage, stroke,
CC myocardial infarction, septic shock and skin disorders.
XX
SQ Sequence 5 AA;

Query Match 100.0%; Score 22; DB 21; Length 5;
Best Local Similarity 100.0%; Pred. No. 6.4e+05;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
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Db 1 amvse 5

RESULT 2
AAY80130
ID AAY80130 standard; peptide; 11 AA.
XX
AC AAY80130;
XX
DT 18-MAY-2000 (first entry)
XX
DE Lipocortin 1 N-terminal peptide sequence #1.
XX
KW Lipocortin 1; LC1; antiinflammatory; inflammation; infection;
KW glucocorticoid; annexin; arthritis; gout; asthma; skin disorder;
KW inflammatory disease; antirheumatic; antiarthritic; antiasthmatic;
KW cerebroprotective; cardiant; antibacterial; immunosuppressive; antigout.
XX
OS Unidentified.
XX
PN WO200005255-A2.
XX
PD 03-FEB-2000.
XX
PF 22-JUL-1999; 99WO-GB02391.
XX
PR 24-JUL-1998; 98GB-0016235.
XX
PA (HARV-) HARVEY RES LTD WILLIAM.
XX
PI Perretti M, Flower R;
XX
DR WPI; 2000-182645/16.
XX
PT Compounds capable of inhibiting leukocyte migration, useful for
PT prevention and treatment of inflammatory diseases such as gout,
PT arthritis and asthma, and skin disorders -
XX
PS Claim 3; Page 11; 15pp; English.
XX
CC The present invention describes a compound (I) comprising the amino acid
CC sequence AMVSE (AAY80129), but which does not include the sequence
CC EQEYVQTV (AAY80132). (I) has antiinflammatory, antirheumatic,
CC antiarthritic, antiasthmatic, cerebroprotective, cardiant, antibacterial
CC immunosuppressive and antigout activity. (I) is an inhibitor of
CC polymorphonuclear leukocyte (PMN) migration. (I) is useful in medicine
CC compositions, for inhibiting leukocyte migration and for treating or
CC preventing inflammatory diseases including gout, gouty arthritis,
CC rheumatoid arthritis, asthma, reperfusion injury or damage, stroke,
CC myocardial infarction, septic shock and skin disorders. The present
CC sequence represents a specifically claimed example of (I).
XX
SQ Sequence 11 AA;

Query Match 100.0%; Score 22; DB 21; Length 11;
Best Local Similarity 100.0%; Pred. No. 7.9;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
|||||
Db 1 amvse 5

RESULT 3
AAY80134
ID AAY80134 standard; peptide; 25 AA.
XX
AC AAY80134;
XX
DT 18-MAY-2000 (first entry)
XX
DE Lipocortin 1 (LC1 2-26) peptide sequence #3.
XX
KW Lipocortin 1; LC1; antiinflammatory; inflammation; infection;
KW glucocorticoid; annexin; arthritis; gout; asthma; skin disorder;
KW inflammatory disease; antirheumatic; antiarthritic; antiasthmatic;
KW cerebroprotective; cardiant; antibacterial; immunosuppressive; antigout.
XX
OS Unidentified.
XX
PN WO200005255-A2.
XX
PD 03-FEB-2000.
XX
PF 22-JUL-1999; 99WO-GB02391.
XX
PR 24-JUL-1998; 98GB-0016235.
XX
PA (HARV-) HARVEY RES LTD WILLIAM.
XX
PI Perretti M, Flower R;
XX
DR WPI; 2000-182645/16.
XX
PT Compounds capable of inhibiting leukocyte migration, useful for
PT prevention and treatment of inflammatory diseases such as gout,
PT arthritis and asthma, and skin disorders -
XX
PS Disclosure; Page 5; 15pp; English.
XX
CC The present invention describes a compound (I) comprising the amino acid
CC sequence AMVSE (AAY80129), but which does not include the sequence
CC EQEYVQTV (AAY80132). (I) has antiinflammatory, antirheumatic,
CC antiarthritic, antiasthmatic, cerebroprotective, cardiant, antibacterial
CC immunosuppressive and antigout activity. (I) is an inhibitor of
CC polymorphonuclear leukocyte (PMN) migration. (I) is useful in medicine
CC compositions, for inhibiting leukocyte migration and for treating or
CC preventing inflammatory diseases including gout, gouty arthritis,
CC rheumatoid arthritis, asthma, reperfusion injury or damage, stroke,
CC myocardial infarction, septic shock and skin disorders. The present
CC sequence represents a peptide sequence which is used in the
CC exemplification of the present invention.
XX
SQ Sequence 25 AA;

Query Match 100.0%; Score 22; DB 21; Length 25;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
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Db      1 amvse 5

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ID   AAB12834 standard; peptide; 40 AA.
XX
AC   AAB12834;
XX
DT   05-DEC-2000  (first entry)
XX
DE   Protein kinase v-Src protein fragment.
XX
KW   ATP binding region; protein kinase A; PKA; CDK2; v-Src; inhibitor;
KW   target validation; mutant; enzyme; identification; protein kinase;
KW   protein kinase inhibitor; tumour; arthritis; cytostatic; cardiant;
KW   vasotropic; antiarthritic; analgesic; hyperproliferation; ischaemia;
KW   cardiovascular disease; urogenital disease; pain.
XX
OS   Unidentified.
XX
PN   WO200042042-A2.
XX
PD   20-JUL-2000.
XX
PF   11-JAN-2000; 2000WO-US00551.
XX
PR   11-JAN-1999;   99US-0115340.
PR   23-JUL-1999;   99US-0145422.
XX
PA   (UYPR-) UNIV PRINCETON.
XX
PI   Shokat KM;
XX
DR   WPI; 2000-491047/43.
XX
PT   New enzyme inhibitors, useful for treating e.g. tumors or arthritis,
PT   are specific for mutant enzymes, without effect on wild-type enzyme,
PT   particularly protein kinases  -
XX
PS   Example 18; Fig 26; 169pp; English.
XX
CC   The present invention describes an inhibitor (A) that does not inhibit
CC   a wild-type enzyme (E1) but does inhibit the same activity of a
CC   corresponding mutant enzyme (E2), with E1 and E2 being functionally
CC   identical. The inhibitor is specifically a protein kinase inhibitor
CC   which can have cytostatic, cardiant, vasotropic, antiarthritic and
CC   analgesic activities. (A), particularly directed against protein kinases
CC   (PK), are used to disrupt oncogenic transformation and inhibit
CC   phosphorylation by mutant PK and growth of cells expressing mutant PK.
CC   They can be used to treat tumours, hyperproliferation, cardiovascular
CC   and urogenital diseases, ischaemia, arthritis or pain. (A) are also
CC   useful for studying enzymatic function. Also (A), and mutant kinases,
CC   are used in gene therapy by knockout of a wild-type PK and replacement
CC   with a mutant PK which can then be regulated (switched on and off) by
CC   administration of (A). The protein kinase inhibitors can be used to
CC   disrupt transformation of cells that express a mutant Src-family PK.
CC   (A) are very specific for mutant enzymes, without significant effect on
CC   other PK. The present sequence represents a protein kinase fragment
CC   which is used in comparison with other protein kinase sequences in an
CC   example from the present invention.
XX
SQ   Sequence   40 AA;


  Query Match             100.0%;  Score 22;  DB 21;  Length 40;
  Best Local Similarity   100.0%;  Pred. No. 32;
  Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 AMVSE 5
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Db     10 amvse 14
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RESULT   5
AAG15894
ID   AAG15894 standard; Protein; 97 AA.
XX
AC   AAG15894;
XX
DT   17-OCT-2000  (first entry)
XX
DE   Arabidopsis thaliana protein fragment SEQ ID NO: 16324.
XX
KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
XX
OS   Arabidopsis thaliana.
XX
PN   EP1033405-A2.
XX
PD   06-SEP-2000.
XX
PF   25-FEB-2000; 2000EP-0301439.
XX
PR   25-FEB-1999;   99US-0121825.
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PR 29-SEP-1999; 99US-0156596.
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Query Match 100.0%; Score 22; DB 21; Length 97;
Best Local Similarity 100.0%; Pred. No. 81;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1 AMVSE 5
           |||||
Db      75 amvse 79
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RESULT 6
AAG61041
ID AAG61041 standard; Protein; 97 AA.
XX
AC AAG61041;
XX

DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 79127.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
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Db 75 amvse 79

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AC AAY60364;
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DT 31-JAN-2000 (first entry)
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DE Human normal bladder tissue EST encoded protein 36.
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KW Human; bladder; treatment; EST; expressed sequence tag; cytostatic;
KW cancer; gene therapy.
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PN DE19818620-A1.
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PI Rosenthal A, Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E;
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DR WPI; 1999-602416/52.
DR N-PSDB; AAZ42156.
XX
PT New polypeptides and their nucleic acids, useful for treatment of
PT bladder tumour and identification of therapeutic agents -
XX
PS Claim 23; Page 261; 366pp; German.
XX
CC This invention describes novel polypeptide fragment sequences (I) and
CC their encoding nucleic acids (II) which are highly expressed in normal
CC bladder tissue and have cytostatic activity. (II) are used for
CC recombinant expression of (I) and to isolate complete genes. (I) are
CC used to identify agents suitable for the treatment of bladder tumours,
CC to directly treat this form of cancer (including expression from gene
CC therapy vectors), or are used in a preparation for cancer treatment. (I)
CC is also used for the generation of specific antibodies. (II) are
CC identified by assembling ESTs (expressed sequence tags) from a
CC particular tissue type before comparison of expression patterns. This
CC allows a significantly longer fragment of the gene to be revealed, and
CC therefore reduces the number of failures because of ESTs from different
CC libraries representing different parts of the same unknown gene
CC distorting the estimated frequency of occurrence in a particular tissue.
CC AAY60329-Y60591 represent protein fragments encoded by the human normal
CC bladder tissue cDNA library derived EST fragments represented in
CC AAZ42122-Z42248.
XX
SQ Sequence 120 AA;

Query Match 100.0%; Score 22; DB 20; Length 120;
Best Local Similarity 100.0%; Pred. No. 1e+02;
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DT 18-OCT-2000 (first entry)
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
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KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
XX
OS   Arabidopsis thaliana.
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PN   EP1033405-A2.
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Query Match 100.0%; Score 22; DB 21; Length 129;
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Db      16 amvse 20
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DT 06-OCT-2000 (first entry)
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DE Human secreted protein, SEQ ID NO: 5003.
XX
KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping.
XX
OS Homo sapiens.
XX
PN EP1033401-A2.
XX
PD 06-SEP-2000.
XX
PF 21-FEB-2000; 2000EP-0200610.
XX
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PA (GEST) GENSET.
XX
PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
DR WPI; 2000-500381/45.
DR N-PSDB; AAC00928.
XX
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures -
XX
PS Claim 13; SEQ ID 5003; 71pp + CD-ROM; English.

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CC   The present sequence is a polypeptide encoded by one of a large number
CC   of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs
CC   were prepared from total human RNAs or polyA+ RNAs derived from 30
CC   different tissues. EST sequences usually correspond mainly to the 3'
CC   untranslated region (UTR) of the mRNA because they are often obtained
CC   from oligo-dT primed cDNA libraries. Such ESTs are not well suited for
CC   isolating cDNA sequences derived from the 5' ends of mRNAs and even in
CC   those cases where longer cDNA sequences have been obtained, the full 5'
CC   UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5'
CC   ends and can therefore be used to obtain full length cDNAs and genomic
CC   DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and
CC   chromosome mapping procedures. They are used to obtain upstream
CC   regulatory sequences and to design expression and secretion vectors.
XX
SQ   Sequence   139 AA;


  Query Match             100.0%;  Score 22;  DB 21;  Length 139;
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Db      2 amvse 6


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DT   17-OCT-2000  (first entry)
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DE   Arabidopsis thaliana protein fragment SEQ ID NO: 16323.
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KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
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Db 130 amvse 134

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DT 17-OCT-2000 (first entry)
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
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OS Arabidopsis thaliana.
XX
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Query Match 100.0%; Score 22; DB 21; Length 155;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
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Db 133 amvse 137

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DT 18-OCT-2000 (first entry)
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XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
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PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 100.0%; Score 22; DB 21; Length 155;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy       1 AMVSE 5
           |||||
Db     133 amvse 137
```

RESULT 15

AAG82274
ID AAG82274 standard; Protein; 155 AA.
XX
AC AAG82274;
XX
DT 03-SEP-2001 (first entry)
XX
DE S. epidermidis open reading frame protein sequence SEQ ID NO:1642.
XX
KW Staphylococcus epidermidis SR1 strain; infection; diagnosis;
KW vaccination; endocarditis.
XX
OS Staphylococcus epidermidis.
XX
PN WO200134809-A2.
XX
PD 17-MAY-2001.
XX
PF 09-NOV-2000; 2000WO-US30782.
XX
PR 09-NOV-1999; 99US-0164258.
XX
PA (GLAX) GLAXO GROUP LTD.
XX
PI Kimmerly WJ;
XX
DR WPI; 2001-316495/33.
DR N-PSDB; AAH53124.
XX
PT Nucleic acids encoding polypeptides from Staphylococcus epidermidis,
PT useful for vaccinating against infections, e.g. endocarditis -
XX
PS Claim 18; Page 457-458; 2188pp; English.
XX
CC AAH52304 to AAH53970 represent nucleic acids (I) encoding polypeptides
CC (II), given in AAG81454 to AAG83120, from Staphylococcus epidermidis.
CC (I) and (II) can have antibacterial activity and therefore can be used
CC in vaccination. The nucleic acids (I) may be used to produce the
CC S. epidermidis polypeptides (II) via the production of vectors
CC containing them which are used to produce hosts cells which express the
CC polypeptides. The polypeptides (II) (and/or nucleic acids) may then be
CC used to vaccinate subjects and to raise antibodies against the bacteria.
CC The polypeptides may also be used to assay for other inhibitors of their
CC activity and therefore identify compounds that may be used for the
CC treatment of S. epidermidis infections, e.g. endocarditis. AAH53971 to
CC AAH55090 represent specifically claimed S. epidermidis genomic DNA
CC polynucleotide sequences from the present invention. AAH55091 to
CC AAH55098 represent oligonucleotide sequences and primers which are used
CC in the exemplification of the present invention.
CC N.B. The present invention specifically claims all the polynucleotide
CC sequences given in the sequence listing of the present specification,
CC however the sequence listing only goes up to SEQ ID NO:4454 so even
CC though sequences are given in the disclosure for SEQ ID NO:4465 to 4472,
CC no sequences are present for SEQ ID NO:4455 to 4464.
XX
SQ Sequence 155 AA;

Query Match 100.0%; Score 22; DB 22; Length 155;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
|||||
Db 66 amvse 70

Search completed: July 9, 2002, 12:19:33
Job time: 883 sec